

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Cancelled)
2. (Currently Amended) ~~[[The]]~~ A header ~~as claimed in claim 1,~~ for a refrigerant of an air conditioning system, comprising:
a housing which has at least one inlet and at least one outlet orifice for the refrigerant,
a chamber for receiving the refrigerant comprising at least one refrigerant-permeable separation element which separates a first region and a second region of the chamber from one another,
wherein an inner wall of the housing has one or more, continuous or singly or multiply interrupted projections or depressions for supporting the separation element, and
~~characterized in that~~ wherein the first region forms a return-flow chamber communicating with the inlet orifice and the second region forms a forward-flow chamber communicating with the outlet orifice, and in that the separation element has a filter or is designed as a filter.
3. (Currently Amended) The header as claimed in claim 2, ~~characterized in that~~ wherein the filter comprises a filter fabric which has a reinforced edge region and/or is set in a frame connectable to the housing.
4. (Currently Amended) The header as claimed in claim ~~[[1]]~~ 2, ~~characterized in that~~ wherein a drier taking the form ~~form, in particular,~~ of granulate or powder can be received in the first region.
5. (Currently Amended) The header as claimed in claim 4, ~~characterized in that~~ wherein the separation element has a sieve or is designed as a sieve.
6. (Currently Amended) The header as claimed in claim 5, ~~characterized in that~~ wherein

the sieve has a reinforced edge region and/or is set in a frame connectable to the housing.

7. (Currently Amended) The header as claimed in claim 4, ~~characterized in that~~ wherein the drier can be fixed in the first region by means of a force accumulator ~~and, in particular, a force distributor.~~

8. (Currently Amended) The header as claimed in claim ~~[[1]]~~ 2, ~~characterized in that~~ wherein a depression for supporting the separation element is formed by a joint between two housing parts.

9. (Currently Amended) The header as claimed in claim ~~[[1]]~~ 2, ~~characterized in that~~ wherein the separation element can be supported against movement away from the first region.

10. (Currently Amended) The header as claimed in claim ~~[[1]]~~ 2, ~~characterized in that~~ wherein the separation element can be supported against movement toward the first region.

11. (Currently Amended) The header as claimed in claim ~~[[1]]~~ 2, ~~characterized in that~~ wherein the separation element can be supported by means of a force accumulator, the force accumulator ~~being designed, in particular, as~~ designed as a compression ~~spring~~ spring, ~~[[or]]~~ cup ~~spring~~ spring, or as a securing ring.

12. (Currently Amended) The header as claimed in claim ~~[[1]]~~ 2, ~~characterized in that~~ wherein the separation element can be connected in a materially integral ~~manner~~ manner, ~~in particular soldered,~~ to the housing.

13. (Currently Amended) The header as claimed in claim ~~[[1]]~~ 2, ~~characterized in that~~ wherein the housing is designed as a closed tube, ~~in particular~~ wherein the closed tube is a round tube, with at least one inlet orifice and at least one outlet orifice.

14. (Currently Amended) A heat exchanger ~~exchanger, in particular condenser, with~~ comprising tubes, ribs and two head pieces, ~~characterized in that wherein~~ the heat exchanger has a header as claimed in claim [[1]] 2.

15. (Currently Amended) A refrigerant circuit of an air conditioning system comprising: ~~system, in particular for a motor vehicle, with~~ a compression element, [[with]] a first heat exchanger, [[with]] an expansion element, [[with]] a second heat ~~exchanger~~ exchanger, and [[with]] a header, ~~characterized in that wherein~~ the header is designed as claimed in claim [[1]] 2.

16. (Currently Amended) A method for the production of a header for a refrigerant of an air conditioning system, the header comprising: ~~in particular as claimed in claim 1,~~ ~~characterized~~

a housing which has at least one inlet and at least one outlet orifice for the refrigerant,

a chamber for receiving the refrigerant comprising at least one refrigerant-permeable separation element which separates a first region and a second region of the chamber from one another, and

wherein an inner wall of the housing has one or more, continuous or singly or multiply interrupted projections or depressions for supporting the separation element; the method comprising:

[[-]] ~~in that,~~ first, introducing one or more projections ~~are introduced~~ into a housing inner wall of the header,

[[-]] ~~in that~~ laying a separation element ~~is then laid onto the supporting means~~ a support,

[[-]] ~~in that,~~ subsequently, introducing and covering a drier ~~is introduced and is covered, in particular,~~ by means of a force distributor, ~~in particular~~ wherein the force distributor is a moveable pressure plate,

[[-]] ~~in that~~ positioning a force accumulator, ~~in particular~~ wherein the force accumulator is a compression spring, ~~is positioned~~ on the drier or the force distributor,

[[-]] ~~in that, in particular,~~ positioning a second separation element or a housing wall is

positioned on the force accumulator,

- [[-]] ~~in that pressing down the force accumulator, the second separation element, or the housing wall the force accumulator, the second separation element or the housing wall is pressed down~~ in the housing from outside and the force accumulator is prestressed,
- [[-]] ~~in that introducing one or more further projections are introduced~~ into the housing inner wall above the force accumulator, the second partition or the housing wall, and
- [[-]] ~~in that relieving the force accumulator is relieved~~ from outside, and pressing the force accumulator presses against the further projections or the second partition or pressing the housing wall is pressed against the further support supporting means by the force accumulator.

17. (Currently Amended) A method for the production of a header for a refrigerant of an air conditioning system, the header comprising: in particular as claimed in claim 1, characterized

a housing which has at least one inlet and at least one outlet orifice for the refrigerant,

a chamber for receiving the refrigerant comprising at least one refrigerant-permeable separation element which separates a first region and a second region of the chamber from one another, and

wherein an inner wall of the housing has one or more, continuous or singly or multiply interrupted projections or depressions for supporting the separation element; the method comprising:

- [[-]] ~~in that introducing a drier is introduced into a housing and covering is covered, in particular, by means of a force distributor, in particular wherein the force distributor is a moveable pressure plate,~~
- [[-]] ~~in that positioning a force accumulator accumulator, in particular a compression spring, is positioned on the drier or the force distributor, wherein the force accumulator is a compression spring, and positioning a separation element is positioned on said compression spring,~~
- [[-]] ~~in that pressing the separation element is pressed down in the housing from outside and prestressing the force accumulator is prestressed,~~

- [[-]] ~~in that~~ introducing one or more projections ~~are introduced~~ into a housing inner wall of the header above the separation element,
- [[-]] ~~in that~~ relieving the separation element ~~is relieved~~ from outside and pressing is pressed against the projections by the force accumulator, and
- [[-]] ~~in that~~ closing the housing ~~is closed~~.

18. (Currently Amended) A method for the production of a header for a refrigerant of an air conditioning system, the header comprising: in particular as claimed in claim 1, characterized

a housing which has at least one inlet and at least one outlet orifice for the refrigerant,

a chamber for receiving the refrigerant comprising at least one refrigerant-permeable separation element which separates a first region and a second region of the chamber from one another, and

wherein an inner wall of the housing has one or more, continuous or singly or multiply interrupted projections or depressions for supporting the separation element; the method comprising:

- [[-]] ~~in that~~ introducing a drier ~~is introduced~~ into a housing and covering by ~~is covered by~~ means of a separation element designed ~~designed, in particular,~~ as a force distributor, ~~in particular~~ wherein the force distributor is a moveable pressure plate,
- [[-]] ~~in that~~ positioning a force accumulator, ~~in particular~~ wherein the force accumulator is a compression spring, ~~is positioned~~ on the separation element,
- [[-]] ~~in that~~ pressing down the force accumulator ~~is pressed down~~ in the housing from outside and the force accumulator is prestressed,
- [[-]] ~~in that~~ introducing one or more projections ~~are introduced~~ into a housing inner wall of the header above the force accumulator,
- [[-]] ~~in that~~ relieving the force accumulator ~~is relieved~~ from outside and pressing the force accumulator ~~is pressed~~ against the projections, and
- [[-]] ~~in that~~ closing the housing ~~is closed~~.

19. (Currently Amended) A method for the production of a header for a refrigerant of an

air conditioning ~~system~~, the header comprising: ~~system, in particular as claimed in claim 1,~~
characterized

a housing which has at least one inlet and at least one outlet orifice for the refrigerant,
a chamber for receiving the refrigerant comprising at least one refrigerant-permeable
separation element which separates a first region and a second region of the chamber from
one another, and

wherein an inner wall of the housing has one or more, continuous or singly or multiply
interrupted projections or depressions for supporting the separation element; the method
comprising:

[[-]] ~~in that~~ introducing a drier is ~~introduced~~ into a housing and covering is ~~covered~~ by
~~means of~~ a separation element,

[[-]] ~~in that~~ pressing down the separation element is ~~pressed down~~ in the housing from
outside,

[[-]] ~~in that~~ introducing one or more projections ~~are introduced~~ into a housing inner wall of
the header above or level with the separation element,

[[-]] ~~in that~~ relieving the separation element is ~~relieved~~ from outside and is supported by
the projections, and

[[-]] ~~in that~~ closing the housing is ~~closed~~.

20. (Currently Amended) A condenser ~~soldered refrigerant condenser, in particular as~~
~~claimed in claim 1,~~ consisting of

a heat exchanger network with flat tubes and corrugated ribs, [[of]]

header tubes which are connected fluidically to the flat tubes, ~~tubes~~ and [[of]]

a header ~~which is~~ arranged parallel to one of the header tubes and ~~which preferably~~
receives within it a drier and/or filter and is connected fluidically to the header tube via
overflow orifices,

the drier ~~being~~ designed as a space which receives a drying agent and which is
delimited by a portion of the header, ~~header~~ and by two refrigerant-permeable inserts which
pass through the cross section of the header and ~~which~~ are supported on at least one or more
projections of the ~~header~~ header,

wherein the header comprises

a housing which has at least one inlet and at least one outlet orifice for the refrigerant, a chamber for receiving the refrigerant comprising at least one refrigerant-permeable separation element which separates a first region and a second region of the chamber from one another, and

wherein an inner wall of the housing has one or more, continuous or singly or multiply interrupted projections or depressions for supporting the separation element.

21. (Currently Amended) The condenser as claimed in claim [[1]] 20, ~~characterized in that wherein~~ the projection or the projections ~~is-or~~ are designed as a continuous bead or at least individual distributed projections.

22. (Currently Amended) The condenser as claimed in claim [[1]] 20, ~~characterized in that wherein~~ the projection or the projections ~~is-or~~ are designed as bead segments distributed over the circumference of the header.

23. (Currently Amended) The condenser as claimed in claim [[1]] 20, ~~characterized in that wherein~~ between the inserts, an elastic element, ~~such as, for example, wherein the elastic element is~~ a compression spring, is arranged, ~~which and is supported supported, on the one hand,~~ against the upper insert and ~~and, on the other hand,~~ against a moveable pressure plate ~~which lies on the drier granulate and which presses the latter against the lower insert.~~

24. (Currently Amended) The condenser as claimed in claim [[1]] 20, ~~characterized in that wherein~~ the lower insert is ~~designed as~~ a perforated plate with a laid-on or integrated sieve or sieve fabric.

25. (Currently Amended) The condenser as claimed in claim [[1]] 20, ~~characterized in that wherein~~ the perforated plate is soldered circumferentially to the header.

26. (Currently Amended) The condenser as claimed in claim [[1]] 20, ~~characterized in that wherein~~ the filter is arranged in the lower region of the header between the two overflow orifices and is designed as an annular sieve.

27. (Currently Amended) The condenser as claimed in claim [[1]] 20, ~~characterized in that~~ wherein the annular sieve consists of an outer ring and of a framed planar sieve fabric.

28. (Currently Amended) The condenser as claimed in claim [[1]] 20, ~~characterized in that~~ wherein the ring is inserted into a groove in the header.

29. (Currently Amended) The condenser as claimed in claim [[1]] 20, ~~characterized in that~~ wherein the ring is connected to the header by frictional connection.

30. (Currently Amended) The condenser as claimed in claim [[1]] 20, ~~characterized in that~~ wherein the ring is soldered circumferentially to the header.

31. (Currently Amended) A method for the production of a condenser comprising a header comprising:

a housing which has at least one inlet and at least one outlet orifice for the refrigerant,
a chamber for receiving the refrigerant comprising at least one refrigerant-permeable separation element which separates a first region and a second region of the chamber from one another, and

wherein an inner wall of the housing has one or more, continuous or singly or multiply interrupted projections or depressions for supporting the separation element; the method comprising:

~~as claimed in claim 1, characterized~~

[[-]] ~~in that,~~ first, producing the projections in the lower region of ~~the a~~ header ~~are produced,~~

[[-]] ~~in that~~ laying the first insert ~~is then laid~~ onto the lower projections,

[[-]] ~~in that,~~ subsequently, introducing granulate ~~is introduced~~ and covering covered upwardly by ~~means of the a~~ moveable pressure plate,

[[-]] ~~in that~~ positioning the compression spring ~~is positioned~~ on the pressure plate and positioning the second insert ~~is positioned~~ above it,

[[-]] ~~in that~~ pressing down the second insert ~~is pressed down~~ in the header from outside and

the compression spring is prestressed,

[[-]] ~~in that~~ introducing projections ~~are introduced~~ into the header above the second insert,
and

[[-]] ~~in that~~ relieving the second insert is relieved from outside and ~~is pressed~~ pressing the
second insert against the projections by the compression spring.